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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION :

Chief, Technical Operations Staff, TSG/NPIC

SUBJECT

: RED Monthly Report (August 1971)

Significant Items of Interest for August 1971:

1. Imagery Interpretation Research Program for FY-72
The request for a follow-on IIRP was signed by
Center management and sent to Headquarters for approval.

Final reports covering FY-71
expected by 30 September 1971, and will be distributed shortly thereafter.

2. Equipment Current Leakage Standard Investigation complied with an urgent ESD request to determine the relationship of the new American National Standard Institute current leakage specifications with those previously specified in U. S. Military Standards.

2. Evaluation of Replacement Luminaires for PI Work

Environments - At the request of IEG, RED/ATB/HFS and ESD/TEB

personnel conducted a preliminary evaluation of several types
of semicollimating luminaires designed specifically for PI
work stations. Procurement of the luminaires follows an
earlier recommendation to replace the diffuse luminaires
currently in place with a design that will decrease glare
sources and improve the lighting efficiency of work areas.

Declass Review by NIMA/DOD

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25X1A	5. Contrast Doubler Evaluation - At the request of ESD, ATB/HFS initiated a test program to evaluate the potential benefits of Contrast Doubler. Imagery and results from the recently completed Emulsion Evaluation Program will form the mainstay of the evaluation.	
25X1A 25X1	eyepieces for ESD/TEB. This calibrated two microscope for their acceptance testing of the 10 x 10 Comparator.	25X1
25X1A	7.	
25X1A	a. A draft final report of the first work order concerning the Tintometer was received. This report indicates that the Tintometer (a Visual Comparison Colorimeter) may be used in conjunction with a fiber-optics probe and a microscope to make microcolorimetric measurements. The accuracy of this technique, however, has not been fully determined.	
25X1A	met for an overall program review.	25X1A
	c. The State-of-the-Art Review (SOAR) of color photography was received and the file started in the ATB.	
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25X1A	a. All hardware for the Color Control Cell has been received and is being held until a room is made available for its installation. Mr. Chief/LB/SS, will designate a room for the Control Cell shortly.	25X1A
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9. The Staley Graphics Process (SGP) The SGP showed a promising potential for producing high sidelity color reproductions of imagery. Using color gamut as the objective measure, SGP yielded superior color rendition when compared with such color reproduction processes as: conventional photographic printing, electrocolor, and lithography. It was found to approximate the dye-transfer process which is thought to be one of the best methods for color reproduction; however, SGP has the advantage of being a dry process. This latest advantage supplements those of continuous tone and false color toning which were previously demonstrated for SGP. Further investigation of this versatile process is planned. Simultaneous Simultaneous	25X1A 25X1
improvement in contrast and resolution for very low contrast improvement in contrast and resolution for very low contrast imagery was achieved using a multiple-reflection technique. In a demonstration of feasibility produced samples by this process in which contrast was increased 2-to-5 times by this process in which contrast was increased 2-to-5 times and resolving power was approximately doubled. This process and resolving power was approximately doubled. This process holds promise for yielding greater information from very low contrast photography acquired over deserts, snow, and water; through haze; in shadow; and at cloud-target interfaces.	25X1A

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25X1A	12. Stereo Scanning Utility Study - The test preparation phase of this study is actively underway by personnel utilizing space in APSD. Current work involves selection of imagery and test targets.	25X1A
25X1A	This project is once again in an active status is preparing for a bench test of the optics and is procuring parts for final fabrication of the prototype instrument.	25X1
	14. Image Comparison Microstereoscope The prototype instrument was delivered to NPIC in August. It is currently located in ESD where a cadre of personnel is undergoing training on the instrument prior to undertaking test and evaluation and operational suitability testing.	25X1A
	Volume I of this handbook was delivered in August and approximately 200 copies are being distributed within the community. Work on Volume II is proceeding as planned with delivery due in the summer of 1972.	25X1 <i>A</i>
25X1D	16. Target Indexing Device Implementation (In-House) - Full-scale operational testing of the device is awaiting delivery of two software programs from AID and for some slight hardware modifications by the contractor. The latter maintenance contract has yet to be approved.	
	18. Proposals Received:	
	Dry Silver Implementation Dry Silver Positive-to-Positive Acting Material 15X Eyepiece for Zoom 3X Mono Objective for Zoom Rhomboids 3X Stereo Objective for Zoom Rhomboids	25X1 25X1 25X1
	19. Completed Project: Evaluation of UV Rear Projection Viewer.	

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25X1A	20. Equipment Delivery: 10" x 10" Stereocomparator -	
25X1A	21. The Dry Silver Display Van is tentatively scheduled to visit NPIC during the week of 20 September.	
	22. Meetings, Briefings, etc.:	
25X1A	a. attended the special CCB Meeting on duplicating materials evaluation at Westover AFB on 17 August 1971. The ATB participated in the data analysis of the PI performance phase of the evaluation.	
25X1A 25X1A	ject on a negative-working diazo film, other in-house research projects, and general research and production capabilities. Work on the negative diazo is directed toward heat processing rather than acid fuming and con-	25X1A
	siderable progress has been made. A commercial 5-inch diazo printer processor operating at 20 ft/min in an aerial duplication mode was demonstrated. In-house research on electrostatic photography was demonstrated. The system appears to have great potential as a microfiche add-on system, and this work will be followed especially	
	for improvements in continuous tone capability. The production capabilities for solvent coating of sensitized materials were outstanding. The Air Force projects on diazo materials and equipment and the in-house electrostatic imaging systems will continue to be monitored closely.	
25X1 25X1A	ATB, visited to discuss implementation procedures of the card mode system into OCS! 360/67 computer and to conduct defocus studies on the "12 MILES" image. A magnetic tape with four declassified images for future processing	25X1A 25X1A
25X1A	was also delivered	3
25X1A 25X1A	visited personnel on 2 August at the request of Chief/ATB to assess the Visibility Laboratory hardware and software for special applications	
25X1A	ATB. The following conclusions were included:	

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25X1	1) The hardware system (as presently constituted) is, at best, a training tool and would have to be replaced by a more sophisticated system for operational	25X1
	purposes. 2) The Assembly language programs are well-documented and could be easily converted	25X1
5X1	3) The Fortran language programs are not well-documented and would be a major task in converting to the computer.	25X1 25X1
25X1A 25X1A	numerous DIA organizations on 3 August at the Pentagon on two human factors training programs conducted under contract "Edge Identification	25X1
25X1 25X1A	OF EXRAND. Preliminary indications point to considerable interest in the community for such training packages.	
	23. Personnel:	
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	TOP SECRET	